

AMENDMENT UNDER 37 C.F.R. § 1.111

U.S. Appl. No. 09/361,118

| | Molding method | Sintering temperature | Density of sintered body | Purity of sintered body | Number of pores $\leq 10 \mu\text{m}$ | Number of pores $\geq 10 \mu\text{m}$ | Corrosion test | Pore area prior to corrosion | Pore area subsequent to corrosion |
|-----------------------|--------------------|-----------------------|--------------------------|-------------------------|---------------------------------------|---------------------------------------|----------------|------------------------------|-----------------------------------|
| | | °C | g/cm ³ | Alumina % | | | | % | % |
| Example 1 | Press molding | 1650 | 3.974 | 99.99 | 12 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 2 | Slip press molding | 1650 | 3.977 | 99.99 | 18 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 3 | Press molding | 1550 | 3.975 | 99.99 | 15 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 4 | Press molding | 1600 | 3.980 | 99.99 | 5 | 0 | ○ | ≤ 0.01 | 0.01 |
| Example 5 | Press molding | 1750 | 3.971 | 99.99 | 15 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 6 | Press molding | 1550 | 3.984 | 99.98 | 7 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 7 | Press molding | 1600 | 3.982 | 99.95 | 4 | 0 | ○ | ≤ 0.01 | 0.01 |
| Example 8 | Press molding | 1600 | 3.982 | 99.99 | 5 | 0 | ○ | ≤ 0.01 | 0.01 |
| Example 9 | Slip press molding | 1600 | 3.983 | 99.95 | 4 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 10 | Press molding | 1600 | 3.980 | 99.90 | 5 | 0 | ○ | ≤ 0.01 | 0.01 |
| Example 11 | Tape molding | 1550 | 3.982 | 99.95 | 6 | 0 | ○ | ≤ 0.01 | 0.02 |
| Example 12 | Press molding | 1700 | 3.980 | 99.99 | 6 | 0 | ○ | ≤ 0.01 | 0.01 |
| Example 13 | Press molding | 1600 | 3.981 | 99.99 | 7 | 0 | ○ | ≤ 0.01 | 0.01 |
| Example 14 | Press molding | 1600 | 3.982 | 99.99 | 4 | 0 | ○ | ≤ 0.01 | 0.01 |
| Comparative example 1 | Slip press molding | 1600 | 3.935 | 99.99 | Large number | 65 | × | 0.08 | 0.5 |
| Comparative example 2 | Press molding | 1650 | 3.945 | 99.99 | Large number | 50 | × | 0.11 | 0.7 |
| Comparative example 3 | Press molding | 1750 | 3.950 | 99.99 | Large number | 35 | × | 0.15 | 0.9 |
| Comparative example 4 | Press molding | 1550 | 3.972 | 99.95 | Large number | 34 | × | 0.08 | 0.5 |
| Comparative example 5 | Press molding | 1700 | 3.900 | 99.95 | Large number | 46 | × | 0.11 | 0.7 |
| Comparative example 6 | Press molding | 1600 | 3.900 | 99.95 | Large number | 69 | × | 0.15 | 0.9 |
| Comparative example 7 | Press molding | 1600 | 3.870 | 99.50 | Large number | Large number | × | 0.17 | 2.1 |
| Comparative example 8 | Press molding | 1500 | 3.800 | 99.95 | Large number | Large number | × | 0.2 | 2.3 |